

Basic Information

Product Name	Anti-NNT Antibody	
Gene Name	NNT	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, monkey, mouse, rat	
Tested Application	WB, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human NNT recombinant protein (Position: C44-A350).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	114KD	
Dilution Ratios	Western blot(WB):	1:500-2000
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow cytometry (FCM):	1-3 µg/1x10 ⁶ cells
	ELISA:	1:100-1000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

This gene encodes an integral protein of the inner mitochondrial membrane. The enzyme couples hydride transfer between NAD(H) and NADP(+) to proton translocation across the inner mitochondrial membrane. Under most physiological conditions, the enzyme uses energy from the mitochondrial proton gradient to produce high concentrations of NADPH. The resulting NADPH is used for biosynthesis and in free radical detoxification.

Selected Validation Data

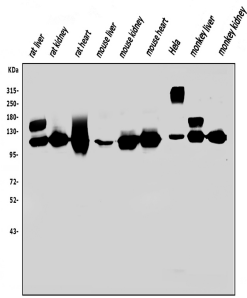


Figure 1. Western blot analysis of anti-NNT antibody (A00887-3). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Rat liver tissue lysates, Lane 2: Rat kidney tissue lysates, Lane 3: Rat heart tissue lysates, Lane 4: Mouse liver tissue lysates, Lane 5: Mouse kidney tissue lysates, Lane 6: Mouse heart tissue lysates, Lane 7: human HELA whole cell lysates, Lane 8: Monkey liver tissue lysates, Lane 9: Monkey kidney tissue lysates, Use rabbit anti- NNT 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for NNT at approximately 114KD. The expected band size for NNT is at 114KD.

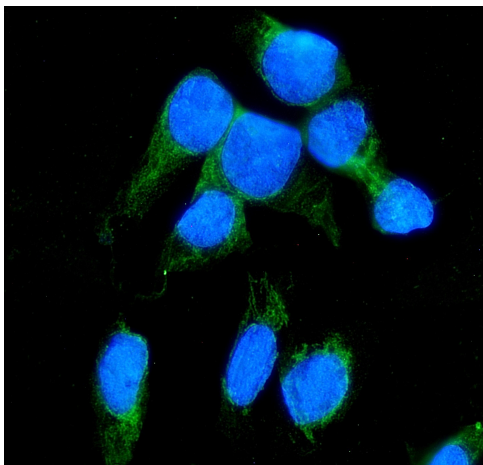


Figure 2. ICC analysis using anti-NNT antibody (A00887-3) was detected in immersion fixed U2OS cell line . Cells were stained using the DyLight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog?#?BA1127) and counterstained with DAPI (blue).

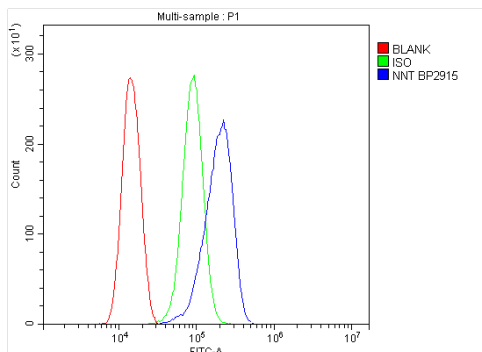


Figure 3. Flow cytometry analysis of THP-1 cell(1x10⁶) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).